Catalytic system for combusting exhaust gases and process for the fabrication of same

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The invention relates to a catalytic system and to a method of producing such a system. The catalytic system consists of a support on which the catalytically active product is deposited. The support has mechanical or physical properties which are of interest in terms of the required working conditions, but a poor specific surface area. The catalytically active product, a metallic carbide, is obtained by coating the support in a suspension of a reducible compound of the metal in a solution of an organic compound, carbonizing this compound, reducing the metallic compound and carburizing the metal. The carbide thus obtained has a high specific surface area. Preferably, the support consists of silicon carbide produced by carbonizing a paste containing silicon, carbon and an organic resin. The invention is applicable to any form of catalyst but in particular to the monolithic catalysts intended for treating exhaust gases.